

# NAGENDAR VARKALA

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## EXPERIENCE

### Full Stack Software Engineer Intern

Oct. 2025 – Present

*Innorize Enterprises Private Limited*

*Hyderabad, India*

- Built and optimized full-stack MERN/Next.js applications using Node.js, Express, and REST APIs, achieving a Lighthouse SEO score of 100 and reducing API latency by ~35% through MongoDB query optimization
- Migrated production codebase from JavaScript to TypeScript and integrated Firebase Analytics, text-to-speech features, and abusive-content filtering to improve type safety, observability, and platform security

## PROJECTS

### Campus-Connect | MERN Stack, Next.js, REST APIs

2025

- Developed a full-stack campus event management platform, increasing event registrations by 40% and reducing check-in time by 70% using QR-based digital tickets
- Designed secure REST APIs, optimized MongoDB schemas, and implemented JWT-based role access for admins and participants

### Video MeetZ | React, Express, WebRTC, WebSockets

2025

- Built a real-time video conferencing application supporting video, audio, and screen sharing using WebRTC
- Achieved sub-200ms end-to-end latency in controlled testing environments with scalable WebSocket-based signaling
- Improved connection reliability by 30% and reduced signaling overhead by 25% through optimized session handling

### Expense Tracker | MERN Stack, REST APIs

2025

- Built a full-stack expense tracking application with JWT authentication, categorized transactions, and responsive dashboards
- Added category-wise analytics and monthly budget insights using chart-based visualizations, accelerating financial analysis by 60%

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, TypeScript, Python, Java, C

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, Framer Motion

**APIs:** RESTful API Design, JWT Authentication

**Databases:** MongoDB, MySQL, Firebase

**Cloud & Deployment:** AWS (EC2, S3), Docker, CI/CD, Vercel, Netlify, Render

**Real-Time Technologies:** WebRTC, WebSockets

## EDUCATION

### Sri Indu College of Engineering & Technology

Hyderabad, India

*B.Tech in Artificial Intelligence & Data Science; GPA: 7.74*

*2022 – 2026*

Relevant Coursework: Artificial Intelligence, Data Science, Machine Learning, Operating Systems, DBMS

## CERTIFICATIONS

### JavaScript Essentials

2024

*Coursera*

### Python Programming

Sep. 2025

*GeeksforGeeks*

## LEADERSHIP & ACTIVITIES

Published 5+ full-stack projects on GitHub using MERN and Next.js, following clean code practices and clear documentation

Led teams in multiple hackathons, managing solution design, task allocation, and on-time feature delivery

Volunteered in college technical events, supporting coordination in fast-paced team environments